

Tidal Love Numbers of Microstate Geometries

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Black-hole microstate (fuzzball) geometries are the only explicit top-down constructions of structure at the scale of the horizon, which is needed to solve the Information Paradox. We compute for the first time the Tidal Love Numbers of certain microstate geometries, and compare them to those of the corresponding black hole. We also discuss the implications for the physics of the structure at the horizon that may be posed by the bounds on Tidal Love Numbers from EMRI gravitational waves.

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Classification de Session: Groupe de travail: tests de la relativité générale et théories alternatives